Carbohydrate Research, 228 (1992) c9–c12
Elsevier Science Publishers B.V., Amsterdam

CONTENTS

Special issue: In Honour of Professor Serge David on the occasion of his 70th birthday

Professor Serge David vii

Analysis of conformationally restricted models for the (1→6)-branch of asparagine-linked oligosaccharides by n.m.r. spectroscopy and HSEA calculation
K. Bock, J. Ø. Duus (Valby, Denmark), O. Hindsgaul, and I. Lindh (Edmonton, Alta., Canada) 1

Synthesis of 2-oxa-4-azabicyclo[3.2.1]-octane and -octene systems *via* X-ray-analyzed *trans*-3-dibenzamidocyclopenten-1-oxide
M. Legraverend, C. Huel (Orsay, France), J. Guilhem (Gif-sur-Yvette, France), and E. Bisagni (Orsay, France) 21

Adverse effects of alkali and acid on the anticoagulant potency of heparin, evaluated with methyl 2-deoxy-2-sulfamino-α-D-glucopyranoside 3-sulfate as a model compound
Z. Liu and A. S. Perlin (Montreal, Que., Canada) 29

Synthesis of allyl 6-*O*-(3-deoxy-α- and -β-D-*manno*-oct-2-ulopyranosylonic acid)-(1→6)-2-deoxy-2-[(3*R*)-3-hydroxytetradecanamido]-β-D-glucopyranoside 4-phosphate and of the copolymer of the α anomer with acrylamide
F.-I. Auzanneau, M. Mondange, D. Charon, and L. Szabó (Châtenay-Malabry, France) . 37

Positional isomers of thioxylobiose, their synthesis and inducing ability for D-xylan-degrading enzymes in the yeast *Cryptococcus albidus*
J. Defay, J.-M. Guillot (Grenoble, France), P. Biely and M. Vršanská (Bratislava, Czechoslovakia) 47

The preparation and phosphorylation of 2,5- and 1D-2,6-di-*O*-benzyl-*myo*-inositol
T. Desai, J. Gigg, R. Gigg, and S. Payne (London, Gt. Britain) 65

Selective protections on 2-allyloxycarbonylamino-1,6-anhydro-2-deoxy-β-D-glucopyranose
A. Bouali, P. Boullanger, D. Lafont, and B. Fenet (Villeurbanne, France) 81

Synthesis and biological activity of a fluoroketonucleoside: 7-(3-deoxy-3-fluoro-β-D-*glycero*-hex-2-enopyranosyl-4-ulose)theophylline
F. Leclercq, M.-J. Egron, K. Antonakis, M. I. Bennani-Baiti, and C. Frayssinet (Villejuif, France) 95

Synthesis of *C*-glycopyranosyl compounds by a palladium-catalyzed coupling reaction of 1-tibutylstannyl-D-glucals with organic halides
E. Dubois and J.-M. Beau (Orléans, France) 103

Synthesis of 2-(4-trifluoroacetamidophenyl)ethyl *O*-(L-*glycero*-α-D-*manno*-heptopyranosyl)-(1→7)-*O*-(L-*glycero*-α-D-*manno*-heptopyranosyl)-(1→3)-L-*glycero*-α-D-*manno*-heptapyranoside, corresponding to the heptose region of the *Salmonella* Ra core structure
P. G. Garegg, S. Oscarson, H. Ritzén, and M. Szönyi (Stockholm, Sweden) 121

4-*O*-β-D-Galactopyranosyl-D-xylose: A new synthesis and application to the evaluation of intestinal lactase
A. Rivera-Sagredo, A. Fernández-Mayoralas, J. Jiménez-Barbero, M. Martín-Lomas, D. Villanueva, and J. J. Aragón (Madrid, Spain) 129

The use of porcine liver (2→3)-α-sialyltransferase in the large-scale synthesis of α-Neu*p*5Ac-(2→3)-*β*-D-Gal*p*-(1→3)-D-Glc*p*NAc, the epitope of the tumor-associated carbohydrate antigen CA 50
A. Lubineau, C. Augé, and P. François (Orsay, France) 137

Free radical-induced *C*-allylation of α-bromolactones. Synthesis of 2-*C*-allyl-2-deoxy-D-arabinono- and -D-ribono-1,4-lactones
S. Hanessian, R. Léger, and M. Alpegiani (Montréal, Que., Canada) 145

Synthesis of an octasaccharide fragment of high-mannose-type glycans of glycoproteins
T. Nukada, T. Kitajima, Y. Nakahara, and T. Ogawa (Saitama, Japan) 157

Synthèse de disaccharides polydésoxygénés et iodés
B. Abbaci, J.-C. Florent, and C. Monneret (Paris, France) 171

Synthesis of aryl D-gluco- and D-galacto-pyranosides and 1-*O*-acyl-D-gluco- and -D-galacto-pyranoses exploiting the Mitsunobu reaction. Influence of the pK_a of the acid on the stereoselectivity of the reaction
A. Lubineau, E. Meyer (Orsay, France), and P. Place (Lyon, France) 191

The synthesis of 5-*C*-(6-deoxy-1,2:3,4-di-*O*-isopropylidene-α-D- galactopyranos-6-yl)-2,3-*O*-isopropylidene-D-*allo*-pentofuranose [deaminotri-*O*-isopropylidenetunicamine]
J. Ramza and A. Zamojski (Warsaw, Poland) 205

Synthesis of *β*-D-mannosides from *β*-D-glucosides *via* an intramolecular SN2 reaction at C-2
W. Günther and H. Kunz (Mainz, Germany) 217

A facile synthesis of nitrophenyl oligosaccharides containing the *O*-α-L-fucopyranosyl-(1→3)-2-acetamido-2-deoxy-*β*-D-glucopyranosyl unit at their nonreducing end
R. K. Jain, C. F. Piskorz, and K. L. Matta (Buffalo, NY, U.S.A.) 243

Polymers having (1→4)- and (1→6)-linked α-D-glucopyranosyl groups as acceptors in the glycogen synthase reaction
U. Zehavi, M. Herchman, ans S. Köpper (Rehovot, Israel) 255

Five specificity patterns of (1→3)-α-L-fucosyltransferase activity defined by use of synthetic oligosaccharides acceptors. Differential expression of the enzymes during human embryonic development and in adult tissues
R. Mollicone, J.-J. Candelier (Villejuif, France), B. Mennesson (Pontoise, France), P. Couillin (Paris, France), A. P. Venot (Edmonton, Alta., Canda), and R. Oriol (Villejuif, France) 265

Biosynthesis of the blood group P^k and P_1 antigens by human kidney microsomes
P. Bailly, F. Piller, B. Gillard, A. Veyrières, D. Marcus, and J.-P- Cartron (Paris, France) 277

Further definition of the size of the blood group-i antigenic determinant using a chemically synthesised octasaccharide of poly-*N*-acetyllactosamine type
T. Feizi, E. F. Hounsell (Harrow, Gt. Britain), J. Alais, A. Veyrières, and S. David (Orsay, France) 289

Notes

Synthesis of 6′-S-α-D-glucopyranosyl-6′-thiomaltose (6^2-thiopanose) and its effect on the enzymic activity of glucoamylases from *Aspergillus niger*
S. Cottaz, H. Driguez (Grenoble, France), and B. Svensson (Copenhagen Valby, Denmark) 299

Improved preparation of hexakis(6-deoxy)cyclomaltohexaose and heptakis(6-deoxy)cyclomaltoheptaose
H. H. Baer, A. V. Berenguel, Y. Y. Shu (Ottawa, Ont., Canada), J. Defaye, A. Gadelle (Grenoble, France), and F. S. González (Granada, Spain) 307

The structure of *O*-specific polysaccharide from *Pseudomonas solanacearum* ICMP 4157
N. A. Kocharova, Yu. A. Knirel, A. S. Shashkov, N. K. Kochetkov (Moscow, U.S.S.R.), and L. D. Varbanets (Kiev, U.S.S.R.) 315

End of special issue papers

A vibrating flexible chain in a molecular cage: crystal structure of the complex cyclomaltoheptaose (β-cyclodextrin)-1,4-butanediol·6.25 H_2O
Th. Steiner, G. Koellner, and W. Saenger (Berlin, Germany) 321

Solution conformation of (1→4)-β-D-mannan from optical rotation
C. A. Duda and E. S. Stevens (Binghamton, NY, U.S.A.) 333

Syntheses and conformations of 3-acetamido-3-deoxy-5-thio-D-xylose and 4-acetamido-4-deoxy-5-thio-L-lyxose and some derivatives thereof
N. A. L. Al-Masoudi (Basrah, Iraq) 339

Total synthesis of the modified ganglioside de-*N*-acetyl-GM_3 and some analogs
S. Fujita, M. Numata, M. Sugimoto, K. Tomita, and T. Ogawa (Saitama, Japan) 347

Synthesis of some carbamates of *myo*-inositol
M. Brufani, M. C. Cesta, L. Donnarumma, L. Filocamo, G. Gostoli, S. Lappa (Roma, Italy), E. Ferrari and P. G. Pagella (Milano, Italy) 371

Chemical modification of the sugar part of methyl acarviosin: synthesis and inhibitory activities of nine analogues
Y. Shibata, Y. Kosuge, T. Mizukoshi, and S. Ogawa (Yokohama, Japan) 377

Convergent synthesis of higher-order oligosaccharides corresponding to the cell-wall polysaccharide of the β-hemolytic *Streptococci* group A. A branched hexasaccharide hapten
K. B. Reimer, S. L. Harris, V. Varma, and B. M. Pinto (Burnaby, B.C., Canada) 399

Structure of the repeating unit of the *O*-specific polysaccharide of the lipopolysaccharide of *Yersinia kristensenii* strain 490 (*O*: 12,25)
V. L. L'vov, S. V. Gur'yanova, A. V. Rodinov (Moscow, U.S.S.R.), and R. P. Gorshkova (Vladivostok, U.S.S.R.) 415

Factors that affect the extraction of xyloglucan from the primary cell walls of suspension-cultured rose cells
H. G. Edelman and S. C. Fry (Edinburgh, Gt. Britain) 423

Notes
^{1}H-N.m.r. spectroscopy of *O*-carboxymethyl derivatives of D-glucose
E. A. Kragten, B. R. Leeflang, J. P. Kamerling, and J. F. G. Vliegenthart (Utrecht, The Netherlands) 433

Driving the pyranoid ring conformation in molecular mechanics calculations
D. R. Ferro, A. Provasoli, and M. Ragazzi (Milano, Italy) 439

Structure of "3-ketolactose" [4-*O*-(β-D-*xylo*-hexopyranosyl-3-ulose)-D-glucopyranose] by ^{1}H- and ^{13}C-n.m.r. spectroscopy
A. De Bruyn and J. Van Beeumen (Gent, Belgium) 445

Oxidation and elimination reactions of phenylhydrazones in bases
H. S. El Khadem and A. Crossman, Jr. (Washington, DC, U.S.A.) 451

Corrigenda c1

Author index c3

Subject index c5

Contents (vol. 228) c9